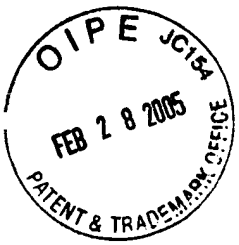


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Patent Application of:

Eric B. Remer, et al.

Examiner: Christopher J. Brown

Application No.: 09/604,184

Art Unit: 2134

Docket Number: P8734

Filed: 6/27/2000

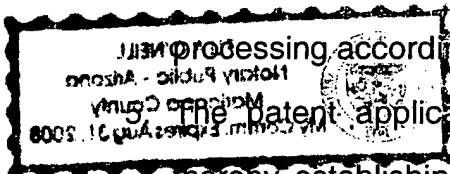
For: System and Method for Supporting
Multiple Encryption or Authentication
Schemes Over a Connection on a
Network

AFFIDAVIT UNDER 37 C.F.R. 1.131

STATE OF ARIZONA
MARICOPA COUNTY

I, Eric B. Remer, first being duly sworn, do hereby state that:

1. I am one of the inventors of the above-referenced patent application.
2. I am an engineer for Intel Corporation, the assignee of the above-referenced patent application.
3. Attached is a true copy of the original invention disclosure for this invention. This invention disclosure documents our invention. I prepared the invention disclosure on May 12, 1999. The invention disclosure establishes a date of conception of my invention no later than May 12, 1999. This date is earlier than the effective date of the cited McDonough, et al., reference (US Patent No. 6,714,982), filed on January 19, 2000, and issued on March 30, 2004.
4. The invention disclosure was submitted to the Intel legal department for processing according to Intel's normal business practices.

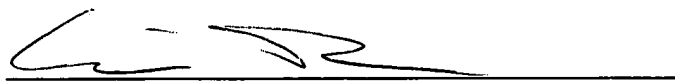


5. The patent application for my invention was filed on June 27, 2000, thereby establishing a date of constructive reduction to practice for the invention.

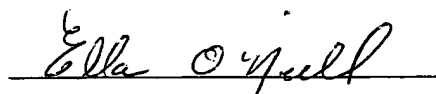
6. The invention disclosure was submitted to my manager Larry Larsen, for signature and approval on December 7, 1999. During the period from the date of submission of the invention disclosure on December 7, 1999, to the filing date of June 27, 2000, the invention disclosure was diligently processed by the inventors and other employees of Intel according to the normal business practices of Intel Corporation.
7. The invention disclosure was received by the Intel patent database group on December 15, 1999.
8. The invention disclosure was reviewed at a meeting of Intel Corporation's Software and Internet Intellectual Property (IP) Committee on February 9, 2000. It was recommended for filing as a patent application and a patent docket file was opened for the patent application on March 15, 2000.
9. During April, 2000, I met with Mr. Jay C. Chiu, a patent attorney of the firm Pillsbury, Madison and Sutro, LLP, a firm assigned by Intel to prepare the patent application, to discuss my invention. Subsequent to this time, I diligently worked with Mr. Chiu in providing information about the invention and in reviewing drafts of the patent application until filing of the application on June 27, 2000.

Respectfully submitted,

Dated: 2/14/2005

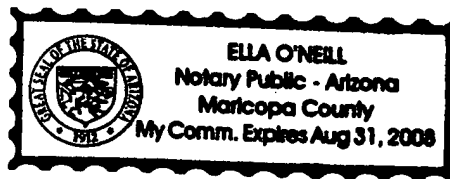

Eric B. Remer

Sworn to and subscribed before me this 14th day of February, 2005.



Notary Public

My commission expires : Aug 31, 2008



INTEL INVENTION DISCLOSURE

DEC 13 1999

DATE: Wednesday, May 12, 1999

NCG
Comm / NBG / SMD

It is important to provide accurate and detailed information on this form. The information will be used to evaluate your invention for possible filing as a patent application. When completed, please return this form to the Legal Department at JF3-147. If you have any questions, please call 264-0444 or 264-1476.

✓ 1. Inventor: Remer Last Name Eric First Name B. Middle Initial
 Phone (801) 763-2337 M/S: UT1 Fax # (801) 756-8350
 Citizenship: US WWID 10074001
 Home Address: 436 North 580 West City American Fork State UT Zip 84003
 Group: (e.g. TMG, NBG, CEG) NBG Division Name SMD Subdivision
 Supervisor* Larry Larsen WWID 10058342 Phone (801) 763-2815 M/S: UT1

✓ Inventor: King Last Name David First Name A. Middle Initial
 Phone (801) 763-2838 M/S: UT1 Fax # (801) 756-8350
 Citizenship: US WWID 10534659
 Home Address: 10833 North 5250 West City Highland State UT Zip 84003
 Group: (e.g. TMG, NBG, CEG) NBG Division Name SMD Subdivision
 Supervisor* Eric Remer WWID 10074001 Phone (801) 763-2337 M/S: UT1

✓ Inventor: Remer Last Name David First Name L. Middle Initial
 Phone (801) 763-2391 M/S: UT1 Fax # (801) 756-8350
 Citizenship: US WWID 10077899
 Home Address: 948 South 1590 West City Orem State UT Zip 84058
 Group: (e.g. TMG, NBG, CEG) NBG Division Name SMD Subdivision
 Supervisor* Larry Larsen WWID 10058342 Phone (801) 763-2815 M/S: UT1

(PROVIDE SAME INFORMATION AS ABOVE FOR EACH ADDITIONAL INVENTOR)

✓ 2. Title of Invention: Supporting Multiple Encryption/Authentication Schemes from a Source to Target Entities (i.e. computers) to establish a Connection over the Internet

3. What technology/product/process (code name) does it relate to (be specific if you can):
Intel InBusiness Remote Services Center

RECEIVED

4. Stage of development (i.e. % complete, simulations done, test chips if any, etc.)
5% (design)

DEC 15 1999

5. (a) Has a description of your invention been, or will it shortly be, published outside Intel:

NO: X YES: _____ If YES, was the manuscript submitted for pre-publication approval? _____

IDENTIFY THE PUBLICATION AND THE DATE PUBLISHED: _____

(b) Has your invention been used/sold or planned to be used/sold by Intel or others?

NO: _____ YES: X DATE WAS OR WILL BE SOLD: Earliest would be late 2000

(c) Does this invention relate to technology that is or will be covered by a SIG (special interest group)/standard/ or specification?

NO: X YES: _____ Name of SIG/Standard/Specification: _____

(d) If the invention is embodied in a semiconductor device, actual or anticipated date of tapeout? _____

(e) If the invention is software, actual or anticipated date of any beta tests outside Intel Earliest in July 2000

6. Was the invention conceived or constructed in collaboration with anyone other than an Intel blue badge employee or in performance of a project involving entities other than Intel, e.g. government, other companies, universities or consortia? NO: X YES: _____ Name of individual or entity: _____

7. Is this invention related to any other invention disclosure that you have recently submitted? If so, please give the title and inventors: Connecting to an Entity (ie computer) Behind a Standard Firewall/Proxy

PLEASE READ AND FOLLOW THE DIRECTIONS ON HOW TO WRITE A DESCRIPTION OF YOUR INVENTION

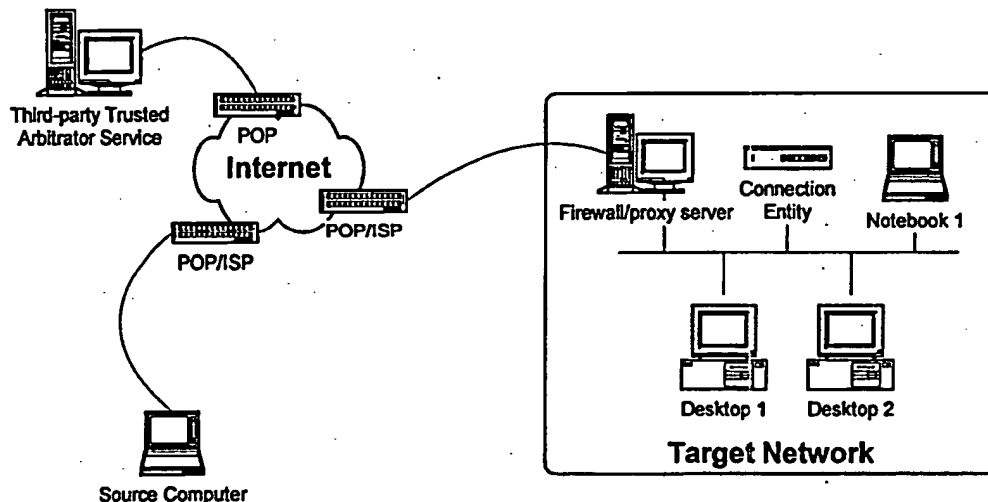
Please attach a page to this form, DATED AND SIGNED BY AT LEAST ONE PERSON WHO IS NOT A NAMED INVENTOR, to provide a description of the invention, and include the following information:

1. Describe in detail what the components of the invention are and how the invention works.

This invention is an extension to the disclosure entitled *Connecting to an Entity (i.e. computer) Behind a Standard Firewall/Proxy*. The *Connecting to an Entity (i.e. computer) Behind a Standard Firewall/Proxy* disclosure describes an invention that allows a computer that is behind a firewall or proxy to be connected to an entity (i.e. computer) outside of a standard web firewall or proxy. The disclosure also explains that the invention relies on a *third party trusted arbitrator* available on the Internet. The invention described in this disclosure uses the same basic aspects of the above explained invention with a new service residing at the third party arbitrator referred to herein as the *Arbitrator Encryption Service*.

It also uses a *connection service* that resides on the network behind the firewall/proxy referred to as the *target network*. This connection service may reside on a computer or a specialized appliance of some type. This connection service lives at the "Connection Entity" in the example diagram for purposes of clarity the name and platform that the connection service resides on is irrelevant to the invention.

The invention allows the source and the target to use completely different encryption techniques to communicate with one another. The source computer contacts the encryption service and sets



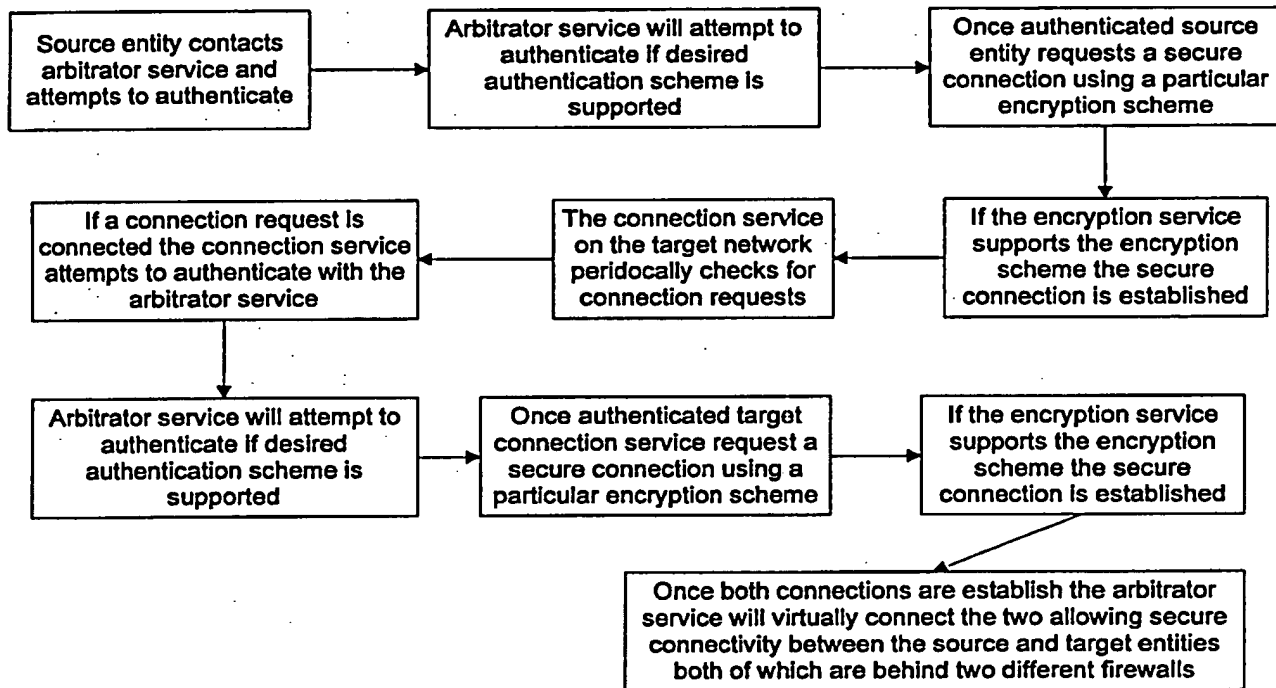
up a secure connection with encryption scheme A. The target computer also contacts the encryption service and sets up a secure connection with encryption scheme B. The encryption service will decrypt and encrypt from one connection to

another allowing the source computer to communicate securely with the target computer even when the two don't support the same encryption techniques. It is important to note that the encryption service must support either type of encryption scheme that the source or target require. It is also important to note that the source and target computers are required to authenticate with the arbitrator service before the secure connection can be established. Using the same concept described above the arbitrator service can support multiple authentication schemes for source and target computers.

2. Describe advantage(s) of your invention over what is done now.

Currently computers that belong to a VPN would be required to use the same encryption scheme.

3. YOU MUST include at least one figure illustrating the invention. If the invention relates to software, include a flowchart or pseudo-code representation of the algorithm.



4. Value of your invention to Intel (how will it be used?).

It will be used in Intel InBusiness Remote Services Center to allow a customer to manage entities (i.e. computers) behind a firewall securely. It could also be used for general-purpose communications between computers behind different firewalls.

5. Identify the closest or most pertinent prior art that you are aware of.

Not aware of any currently.

6. Who is likely to want to use this invention or infringe the patent if one is obtained and how would infringement be detected?

Anyone in need of handling multiple encryption types between source and target entities (computers) behind a firewall.

***HAVE YOUR SUPERVISOR READ, DATE AND SIGN COMPLETED FORM**

DATE: December 7, 1999 SUPERVISOR: Larry A. Lassen

BY THIS SIGNING, I (SUPERVISOR) ACKNOWLEDGE THAT I HAVE READ AND UNDERSTAND THIS DISCLOSURE, AND RECOMMEND THAT THE HONORARIUM BE PAID